PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	受付						
То:	17.4.21 PCT						
see form PCT/ISA/220	WRITTEN OPINION OF THE						
See form PC1/ISA/220	INTERNATIONAL SEARCHING AUTHORITY						
	(PCT Rule 43 <i>bis</i> .1)						
	Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)						
Applicant's or agent's file reference see form PCT/ISA/220	FOR FURTHER ACTION See paragraph 2 below						
International application No. International filin PCT/JP2005/000629 13.01.2005	ng date (day/month/year) Priority date (day/month/year) 16.01.2004						
International Patent Classification (IPC) or both national classification and IPC C07D231/12, C07D261/08, C07D275/02, C07D263/32, C07D277/30, C07D277/32, C07D277/34, C07D285/08,							
Applicant SUMITOMO CHEMICAL COMPANY, LIMITED							
This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.							
Name and mailing address of the ISA:	Authorized Officer						

Name and mailing address of the ISA



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Kollmannsberger, M

Telephone No. +49 89 2399-7364



10/585478

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000629

MIZO REC'S FUTETO OZ JUL 2006 Box No. I Basis of the opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material: a sequence listing □ table(s) related to the sequence listing b. format of material: in written format in computer readable form c. time of filing/furnishing: contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments: Box No. II Priority The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

Additional observations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000629

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application,				
\boxtimes	claims Nos. 17,18				
because:					
⊠	the said international application, or the said claims Nos. 17,18 relate to the following subject matter which does not require an international preliminary examination (specify):				
	see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	no international search report has been established for the whole application or for said claims Nos.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further	deta	ils		

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-18

No:

Claims

Inventive step (IS)

Yes: Claims

1-18

No: Claims

Industrial applicability (IA)

Yes: Claims

1-16

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

10/585478 AP20 Rec'd PCT/PTO 07 JUL 2006 International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/JP2005/000629

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 17 and 18 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

V-1. State of the art

The following documents have been cited:

- D1: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30) -& JP 10 029966 A (MITSUBISHI CHEM CORP), 3 February 1998 (1998-02-03)
- D2: WO 02/089579 A (SUMITOMO CHEMICAL COMPANY, LIMITED; OTAKA, KEN; SUZUKI, MASAYA; OOHIRA) 14 November 2002 (2002-11-14)
- D3: PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2004 099597 A (SUMITOMO CHEM CO LTD), 2 April 2004 (2004-04-02)
- D4: WO 2004/006677 A (SUMITOMO CHEMICAL COMPANY, LIMITED; OTAKA, KEN; OOHIRA, DAISUKE; TAKAO) 22 January 2004 (2004-01-22)

D3 and D4 will be disregarded during the PCT procedure as they have been published after the priority date of the present application.

V-2. Novelty (Art. 33(2) PCT):

The claims are novel over the cited documents due to the five-membered heterocycle that is required to have at least two heteroatoms.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

V-3. Inventive Step (Art. 33(3) PCT)

Closest prior art can be seen in D2 that discloses pesticides which differ from the present claims in that they have a benzene ring as the cyclic structure whereas presently five-membered heteroaromatic rings with at least 2 heteroatoms are claimed. The problem to be solved is the provision of further compounds with such an activity. Since neither of D1 or D2 suggest to modify the cyclic ring to a five-membered heteroaromatic with at least two heteroatoms, this problem has been solved in a non-obvious way.

Re Item VI Certain documents cited

Certain published documents

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO2004/006677	22.02.2004	07.07.2003	17.07.2002
JP2004099597	02.04.2004	16.07.2003	